26 April 1999

Dear Colleague:

Thank you for your interest in DARPA BAA #99-24, Totally Agile RF Sensors Systems (TASS) In response to your request, a copy of the TASS Proposer Information Packet (PIP) is enclosed. This pamphlet is divided into three sections with two enclosures.

SECTION 1: Program Information provides supplemental program information. In case of conflict between the information contained in this PIP and the BAA, the instructions in the BAA will take precedence.

SECTION 2: Proposer Information provides detailed information on the proposal format and a copy of the required cover sheet. Proposals not meeting this format may not be reviewed.

SECTION 3: Broad Agency Announcement #99-24 Totally Agile RF Sensor Systems (TASS) is a reprint of the BAA which was published in the Commerce Business Daily by the US Government, Department of Commerce.

Enclosure (1) – Standard Form 1411 (form is optional but recommended, all information contained on this form is required)

Enclosure (2) – Submission Cover Sheet (required)

Thank you again for your interest in TASS, DARPA BAA #99-24.

Sincerely,

Dr. Francis Patten
Program Manager
DARPA/ATO

SECTION 1

PROGRAM INFORMATION
Defense Advanced Research Projects Agency (DARPA)
Program Information Package
BAA#99-24
Totally Agile RF Sensor Systems (TASS)

This Program Information Package (PIP) is provided as a supplement to BAA 99-24. (See Section 3 for a reprint of the CBD Announcement.) As such, the discussion contained herein is expected to be extremely useful in proposing. However, in case of a conflict between this PIP and the BAA, the instructions in the BAA will take precedence.

1.1 DEFINITION OF TASS AND PROGRAM GOALS

The Totally Agile RF Sensor Systems (TASS) initiative is aimed at enhancing the performance of military communications, COMINT/SIGINT or other receiver systems by developing and demonstrating high-Q tunable HTS filters for enhanced performance cryogenic RF preselectors. In addition, this initiative will address the development of supporting cryogenic and electronic technologies that will enable high-Q tunability at frequencies of interest.

Past DARPA funding has enabled the development of superior cryogenic radio frequency (RF) preselectors, consisting of high temperature superconductor (HTS) bandpass filters integrated with low noise semiconductor amplifiers. These cryogenic preselectors have demonstrated: (1) the lowest noise figures of any RF receivers, enabled by cooling of the semiconductor amplifier; (2) reduced system noise floors, caused by the rejection of thermal, environmental and man-made noise by the ultra-sharp HTS filters; and (3) increased protection of the amplifier stage by the superior rejection of the filters outside the passband.

The present TASS solicitation is intended to expand the applicability of this cryogenic RF preselection technology to a wider category of systems. Introduction of this technology into military RF systems has been limited by a number of factors that the TASS program intends to address. These factors are listed in the priority of interest to DARPA.

1) Effective Filter Tunability. Implementing a fixed bandpass filter, providing all of the benefits listed above, is technologically difficult and offers no protection against large amplitude unwanted signals within the selected band. In addition, the operation of the receiver/preselector is limited to the particular band defined by the filter passband. HTS filters offer the potential of achieving, in RF front ends, selectivities usually associated with IF bandpass filters. While such highly selective HTS filters, with bandwidths matched to the actual signal bandwidths, rather than the overall transmission band, offer enormous receiver performance benefits in congested signal environments, the filters must be precisely tunable to be useful. Both the tuning characteristics (range, precision, resolution, repeatability, hysteresis, tuning rate, etc.) and signal characteristics (bandwidth, shape factor, phase linearity, intermodulation level, etc.) of these agile HTS filters must be matched with the requirements of the intended applications.
2) Tunable Filter Performance. Because principal applications of these HTS tunable filters is the protection of sensitive receivers from performance degradation due to intermodulation effects from strong undesired signals, the intermodulation distortion characteristics of the HTS tunable filters will be important for many applications. Technology development activities enabling substantial improvements in the intermodulation distortion and/or power handling capabilities of these HTS tunable filters will be encouraged.
3) Supporting Technologies. It is anticipated that the development of high-Q tunability HTS filters will require a concurrent development effort addressing supporting technologies such as control circuitry, associated electronics, cryogenic engineering and low-loss RF feedthroughs.
4) Size, Weight and Power. In some applications, the restriction to a fixed passband is not troublesome. However, the necessity of cryogenic operation for this technology adds size, weight and power requirements that are not tolerable in some military systems. Use of innovative cryogenic engineering, minimal-sized cryocoolers, and new approaches to cryosystem design are desired.
5) Innovative Approaches to RF System Issues Involving Cryogenics. Preliminary results indicate that cryogenic components other than filters and amplifiers may also contribute to improving RF systems. Practical cryogenic components that could improve RF functionalities such as input overdrive protection (without linearity/IM compromise), signal excision, distribution, switching, detection, and RF/analog processing are of interest to the program.

1.2 PROGRAM SPECIFICATIONS

The following information is to provide guidance in developing program goals and objectives. The following chart is not comprehensive and many of the filter characteristics are dependent on the specific application. Therefore, proposals should contain discussions on all of the key filter parameters as they pertain to a selected application(s).

Example of tunable HTS filters specifications

System characteristic	Near Term (18 months)	Long Term (36 months)
Center Frequency	900 MHz	Various designs in the range 20-20,000 MHz
Tunability	+/-5% to +/- 20%	3:1 range where applicable
Noise Figure Degradation Due to Insertion Loss	<0.5 dB	<0.2 dB
Tuning Stability/Resettability	0.1%	0.001%
Tuning Resolution	7 bits to continuous	continuous
Unloaded Q of Elements	>10,000	>50,000

Discussion on filter parameters not listed above should be included in the technical proposal; these include ripple, phase linearity, IM distortion, tuning rate, etc. In addition, consideration should be given to system size, weight, volume, power issues, etc.

1.3 TEAMING ARRANGEMENTS

In the evaluation of proposals to the TASS program, considerable emphasis will be placed on integrated approaches, i.e., proposals which tackle as many as possible of the challenges as outlined in the PIP and that demonstrate a clear understanding of the interrelationships between them. Therefore, teaming is encouraged to ensure that advances in materials and components can be rapidly integrated into useable military devices. To assist the teaming process an interactive web site has been established at URL: www.sainc.com/DARPA/TASS. Individual researchers and organizations with specific, applicable expertise or capabilities may provide non-proprietary descriptions of their capabilities and interests. The web site will remain active from the date of issuance of this BAA until proposals are due. Specific information content, communications, networking, and team formation are the sole responsibilities of the participants. DARPA will not participate in these activities other than to provide the web site forum to enable others to initiate communications. Individual efforts will be entertained where a convincing case can be made for comprehensive internal capabilities or broad applicability of the specified research; however, because integration challenges are so important in the development of military RF systems, a team approach where insightful research ideas are combined with excellent system engineering is likely to be more convincing.

1.4 PROGRAM CONTENT

As outlined above in the program goals, this program seeks to design, develop and demonstrate tunable HTS filters that will significantly enhance the performance of military platforms. The proposal should be divided in to two phases, Phase I covering the initial 18 months of the program and Phase II covering an additional 18 months. Phase I goals should address the Near Term (18 month) specifications and Phase II goals should address the Long Term (36 months) specifications (Section 1.2). Funding for Phase II is dependent upon a successful completion of **Phase I.**

Each proposal should include the following:

1) Description of the proposed tunable filter device, technical rational, approach, demonstrations, plan for accomplishment of program goals.

2) A detailed discussion of the tunable HTS filter concept. This should include details on filter performance as well as system performance improvements anticipated through the use of the proposed filters.

3) A discussion of the processing requirements needed to fabricate the proposed tunable filter.

4) A discussion on the development of supporting technologies needed to achieve fully operational preselectors/receivers.

5) An analysis on the size, weight and power requirements for the proposed tunable HTS filter with supporting electronics and cryogenics. If available, these requirements should be compared to proposed system applications.

6) A discussion on possible innovative RF approaches as well as cryogenic engineering improvements that could significantly impact system parameters.

7) A discussion on testing procedures that will adequately evaluate the tunable HTS filter under development.

8) Discuss technology transition plan for incorporating developed tunable HTS filter into actual military systems.

An elaboration of the capabilities and role of each of the team members including:

1) A description of the overall experience of each of the team members.

2) A demonstration that the team has the appropriate expertise to address the critical design, component and materials synthesis hurdles.

3) A detailed discussion of the specific role/contributions of each of the proposed team members.

1.5 EVALUATION CRITERIA

The following evaluation criteria, summarized below, are listed in order of decreasing importance. Proposals that are considered less than satisfactory in the Scientific and Technical Merit criterion will not be evaluated further.

Evaluation Criteria
1) Scientific and Technical Merit
2) Impact of Successful Development on Defense Systems
3) Offeror's Capabilities and Recent Related Experience
4) Reasonableness of Cost Realism

1.5.1 *Scientific and Technical Merit*

1) Knowledge and Understanding. Proposers must demonstrate that they have sufficient knowledge to design, fabricate, and test tunable HTS filters, associated electronics, cryocoolers, and other necessary components for a complete preselector. In addition, the proposer must have an understanding of the critical parameters and properties of the proposed tunable filter.
2) Uniqueness/Soundness of Approach. Proposers must demonstrate that they have a unique and technically sound subsystem approach to design and demonstrate a functional, preselector exploiting tunable HTS filter, operating at cryogenic temperatures. Furthermore, they must demonstrate that their approach will lead to a successful demonstration in a militarily relevant platform.

1.5.2 *Impact of Successful Development on Defense Systems*

1) Proposers need to demonstrate that the performance goals and attributes of the proposed tunability HTS filter preselector device and architecture will lead to a capability of interest to the Department of Defense or other agencies interested in National Security.

1.5.3 *Offeror's Capabilities and Past Related Experience, including Personnel, Facilities, Equipment and Data*

1) Qualifications of the Team to Meet the Program Objectives. Proposers must demonstrate that their team has the necessary background and experience to perform this project. The balance of the technical capabilities of the team must match that required in the program plan. The relevant experience of key personnel must be sufficient to provide confidence that the proposers can accomplish their objectives.
2) Intellectual Property. Proposers must provide a list of relevant intellectual property by Title, Inventor, Patent Number, and Assignee in the technology arena to demonstrate their qualifications. If the proposer has patents pending, then provide the Title, Inventor, and Patent Application Number in the technology arena to demonstrate their qualifications.
3) Product and Application. Proposers must provide a short description of technologies that the proposer has developed to a product level and sold as a commercial or military product.
4) Adequacy of Facilities. Proposers must demonstrate that the combined facilities of the team are sufficient to accomplish the objectives of the proposal.

1.6 COST REALISM

Requested costs of the proposal must be reasonable and provide a high value to the Government. This factor will only be significant in proposals which have significantly under- or over-estimated the cost to complete their effort. Cost share, while not required, shows both a financial and technical commitment on the part of the proposing team and is encouraged. Cost share in terms of cash, including internal research and development, is more compelling, as it customarily reflects a greater commitment than "in-kind" contributions. Previous investments and "sunk-costs" are not considered as eligible cost share.

***The government reserves the right to select for award all, some, or none of the proposals received.*

1.7 KEY DATES

- 21 June 1999 — White papers due, limited to 10 pages
- 8 July 1999 — Government recommendations for full proposal submissions
- 22 September 1999 — Full proposals due, technical proposal limited to 50 pages

SECTION 2

PROPOSER INFORMATION

2.1 PROPOSAL FORMAT

All proposals shall be in the following "page" format: single-spaced, single-sided on paper not greater than 8.5 x 11 inches in size with 1.00 inch minimum top, bottom, and side margins. Font size shall be no smaller than 12 pitch. All proprietary material should be clearly marked and will be held in the strictest of confidence. The original proposal submission should include the special cover sheet with original signatures. Copies of proposal submissions may contain duplicates of the original cover sheet. Please include email address on cover page. Facsimile proposals will not be accepted and institutional brochures, reprints, and videotapes will be ignored.

2.2 PROPOSAL GUIDELINES

2.2.1 White Papers

Proposers must submit an original and nine (9) copies of the White Paper to DARPA/ATO, 3701 North Fairfax Drive, Arlington, VA 22203-1714 (Attn.: BAA 99-24) on or before 4:00 PM, EST 21 June 1999. White papers must meet format guidelines as described above. White papers are limited to a maximum of ten (10) pages and should contain:

1) Concepts for addressing the issues of high-Q tunability of HTS filters,
2) Program plan with technical milestones for developing filters,
3) Integration of filters with cryogenically-cooled semiconductor electronics,
4) Optimized cryogenic packaging,
5) Proposed funding level for the initial (near-term, 18-month) effort, and if necessary,
6) Descriptions of experience and expertise of prime contractor and sub-contractors.

All White Paper submissions will be evaluated by an expert Government panel for their responsiveness to the stated goals and objectives and of this BAA. If the white paper is deemed to be responsive, suggestions may be made for possible changes in scope and direction for the final (end of program, 36-month) proposal. Those meeting the criteria of this BAA will be asked to submit a full proposal.

2.2.2 Full Proposals

Proposers must submit an original and nine (9) copies of the full proposal to DARPA/ATO, 3701 North Fairfax Drive, Arlington, VA 22203-1714 (Attn.: BAA 99-24) on or before 4:00 PM, EST, 22 September 1999. Full proposals must meet the objective and format guidelines as described in the PIP to be considered. The proposals shall consist of two volumes: (1) Technical and (2) Cost. Volume 1, Technical, shall not exceed fifty (50) pages in length, including the special cover sheet, all charts, figures and appendices. The enclosed cover sheet must accompany each submission. Full proposal submissions shall be proposed in a two-phase effort. Phase I - Near Term, 18-month effort that demonstrates proof of concept and Phase II - End of Program, 36-month (total) effort achieving end of program requirements as outlined in Section 1.2 of this PIP. Suggested format for full proposal:

1) Introduction with statement of the perceived technical challenges and the concepts to be exploited to satisfy the requirements of the PIP,
2) Detailed technical discussions of implementation of the proposed concept, technical risks, and a set of metrics for periodically evaluating progress,
3) Description of how these tunable filters will be integrated with cooled semiconductor components and packaged with a small, energy efficient cryogenic refrigerator,
4) List of participating organizations, their relevant expertise and which tasks will be performed by each team member, and the overall management plan,
5) A Statement of Work with technical milestones and deliverables, and
6) Cost and implementation schedule.

The most important part of the full proposal will be the technical concepts proposed for achieving frequency tunability while maintaining high unloaded Q-values, with appropriate tuning speed, resetability and repeatability requirements. Innovative approaches are desired. What is not wanted is a program plan starting with a theoretical survey of all potential techniques, continuing into a systematic materials development phase, and ending with optimizations of material properties and device characteristics.

Early submission of proposals is encouraged; selections may be made at any time during the process. Within approximately ten (10) business days of receipt, DARPA will acknowledge receipt of the submission and assign a control number that should be used in all further correspondence regarding the proposal.

2.2.3 Cost Proposal

The cost proposal shall contain a summary cost breakdown and a detailed cost breakdown. There is no page limit. The cost proposal shall be prepared in general accordance with FAR 15.403-5 and Table 15-2 with all supporting data in order to allow for a complete review by the government. The summary cost breakdown (see Table 1 below) shall be limited to one (1) page, but the page count of the detailed cost breakdown shall not be limited. The one (1) page cost summary should be provided as Page 2 of the Cost Proposal.

The summary cost breakdown should be shown by phase and the level of major tasks and should indicate manpower levels of effort, equipment and supplies, travel, and miscellaneous expenses for the tasks of the entire program, broken out by performer and time. It should list total costs to the government including fee for each task by program calendar year and phase, totals for each task, and totals for each calendar year and phase as in the table below. Details of the cost sharing to be undertaken by the offeror (if any) must also be included.

Table 1: Summary Cost Breakdown

	Phase I		Phase II		Total Cost to Government	Cost Share (if any)
	Month 12	Month 18	Month 24	Month 36		
Task 1: ["Title"]						
Task 2: ["Title"]						
Task 3: ["Title"]						
.....						
Task N: ["Title"]						
Total Cost to Government						
Cost Share (if any)						

The detailed breakdown of cost data shall include all anticipated incurred costs under the contract. Cost details, broken down by cost element, should be prepared for each major task along with supporting rationale. All cost details shall be broken down to coincide with the offeror's accounting periods as related to the specific period of performance as indicated in the proposed milestone chart. The cost proposal shall include all supporting information including, but not limited to: breakdown of labor hours by category, materials (vendor quotes or method of establishing cost), travel, and direct and indirect costs.

SECTION 3

BROAD AGENCY ANNOUNCEMENT (BAA) #99-24
TOTALLY AGILE RF SENSOR SYSTEMS (TASS)

TOTALLY AGILE RF SENSOR SYSTEMS SOL BAA 99-24, DUE 092299 POC Dr. Francis Patten, DARPA/ATO, FAX (703) 696-3999 EMAIL: BAA99-24@DARPA.MIL URL: http://www.darpa.mil/baa/#ATO/

1.1 PROGRAM GOALS AND OBJECTIVES

The Defense Advanced Research Projects Agency (DARPA) is soliciting innovative research proposals in Totally Agile RF Sensor Systems (TASS). This effort is intended to develop a family of tunable filters with very high-Q values and to integrate these components into very compact, very low-noise, very narrow-band-pass pre-selectors for use with communications receivers. This development will facilitate the detection of very weak signals in a dense environment of competing electromagnetic radiation. DARPA has funded programs to develop cryogenic pre-selectors consisting of High Temperature Superconductors (HTS) narrow band filters and low-noise semiconductor amplifiers, both operating at cryogenic temperatures. These cryogenic pre-selectors have demonstrated: 1) lowering of the noise figure of the system by operating at lower temperatures (~ 77K); 2) lowering of the noise floor of the system within band by excluding those portions of the electromagnetic spectrum outside the bandpass of interest, minimizing the intermodulation distortion products within the defined bandpass of the system generated by the mixing of those out-of-band signals. The objective of this program is to enhance the performance capabilities of these cryogenic pre-selectors by providing tunability of the HTS input filters without degrading the band-pass characteristics. To maintain the very high-unloaded Q-values currently realized for HTS filters very special tuning and reconfiguring techniques must be employed. It is the intent of this solicitation to explore new, innovative and creative technologies, which can contribute to this aim, while maintaining certain minimum values of tuning speed, repeatability, and reliability. Another objective is to reduce the size and weight of the system by a factor of approximately two from that previously achieved in the DARPA program.

1.2 TEAMING

In the evaluation of proposals to the TASS program, considerable emphasis will be placed on integrated approaches, i.e., proposals which tackle as many as possible of the challenges as outlined in the Proposer Information Pamphlet (PIP) and that demonstrate a clear understanding of the interrelationships between them. Therefore, teaming is encouraged to ensure that advances in materials and components can be rapidly integrated into useable military devices. To assist the teaming process an interactive web site has been established at URL: www.sainc.com/DARPA/TASS/. Individual researchers and organizations with specific, applicable expertise or capabilities may provide non-proprietary descriptions of their capabilities and interests. The web site will remain active from the date of issuance of this BAA until proposals are due. Specific information content, communications, networking, and team formation are the sole responsibilities of the participants. DARPA will not participate in these activities other than to provide the web site forum to enable others to initiate communications. Individual efforts will be entertained where a convincing case can be made for comprehensive internal capabilities or broad applicability of the specified research. However, because integration challenges are so important in the development of military RF systems, a team approach where insightful research ideas are combined with excellent system engineering is likely to be more convincing.

1.3 WHITE PAPERS

White papers are limited to a maximum of ten (10) pages and should contain: 1) concepts for addressing the issues of high-Q tunability of HTS filters; 2) program plan with technical milestones for developing filters; 3) integration of filters with cryogenically-cooled semiconductor electronics; 4) optimized cryogenic packaging; 5) proposed funding level for the initial (near-term, 18-month) effort; and 6) if necessary, descriptions of experience and expertise of prime contractor and sub-contractors. All White Paper submissions will be evaluated by an expert Government panel for their responsiveness to the stated goals and objectives and of this BAA. If the white paper is deemed to be responsive, suggestions may be made for possible changes in scope and direction for the final (end of program, 36-month) proposal. Those meeting the criteria of this BAA will be asked to submit a full proposal. Proposers must submit an original and nine (9) copies of the White Paper to DARPA/ATO, 3701 North Fairfax Drive, Arlington, VA 22203-1714 (Attn.: BAA 99-24) on or before 4:00 PM, EDT 21 June 1999. White Paper must meet the objective and format guidelines as described in the PIP to be considered.

1.4 FULL PROPOSALS

Full proposal submissions shall be proposed in a two-phase effort. Phase I - Near Term, 18-month effort that demonstrates proof of concept and Phase II - End of Program, 36-month (total) effort achieving end of program requirements as outlined in the PIP. The technical proposal is restricted to 50 pages. Suggested format for full proposal: 1) introduction with statement of the perceived technical challenges and the concepts to be exploited to satisfy the requirements of the PIP; 2) detailed technical discussions of implementation of the proposed concept, technical risks, and a set of metrics for periodically evaluating progress; 3) description of how these tunable filters will be integrated with cooled semiconductor components and packaged with a small, energy efficient cryogenic refrigerator; 4) list of participating organizations, their relevant expertise and which tasks will be performed by each team member, and the overall management plan; 5) A Statement of Work with technical milestones and deliverables, and 6) cost and implementation schedule. The total amount of funding available for this BAA is approximately $30M distributed over three years, and, it is anticipated that there will be multiple awards as a result of this BAA. The most important part of the full proposal will be the technical concepts proposed for achieving frequency tunability while maintaining high unloaded Q-values, with appropriate tuning speed, resetability and repeatability requirements. Innovative approaches are desired. What is not wanted is a program plan starting with a theoretical survey of all potential techniques, continuing into a systematic materials development phase, and ending with optimizations of material properties and device characteristics. The end products of this Solicitation will be deliverable hardware demonstrating the approach achieved toward meeting the specification listed in the PIP. Proposers must submit an original and nine (9) copies of the full proposal to DARPA/ATO, 3701 North Fairfax Drive, Arlington, VA 22203-1714 (Attn.: BAA 99-24) on or before 4:00 PM, EDT, 22 September 1999. Full proposals must meet the objective and format guidelines as described in the PIP to be considered.

1.5 PROPOSAL EVALUATION

Evaluation of proposals will be accomplished through a technical review of each proposal using the following criteria: (l) scientific and technological merit of the proposed program; (2) offeror's capabilities, past performance, and recent related experience, including personnel, facilities, equipment and data; (3) impact of the successful development on defense systems; and (4) reasonableness of cost realism. All proposals will be reviewed by Government officials only. Input on technical aspects of the proposals may be solicited by DARPA from non-Government consultants/experts who are bound by appropriate non-disclosure requirements. Non-Government technical consultants will not have access to proposals that are labeled by the offerors as "GOVERNMENT ONLY." Restrictive notices notwithstanding, proposals may be handled, for administrative purposes only, by Strategic Analysis, Inc., a support contractor. This contractor is bound by appropriate non-disclosure requirements. The Government reserves the right to select for award all, some, or none of the proposals received. All responsible sources capable of satisfying the Government's needs may submit a proposal that shall be considered by DARPA.

1.6 GENERAL INFORMATION

Proposers must obtain a pamphlet entitled "BAA 99-24, Totally Agile RF Sensor Systems (TASS) Program Proposer Information Pamphlet (PIP)" which provides detailed information on objective, areas of interest, the submission, evaluation, and funding processes, proposal formats, and other program information. This pamphlet may be requested from the World Wide Web (WWW) or by fax, electronic mail (email) or mail requests to the administrative contact address given below. This announcement and the PIP may be retrieved via the WWW at URL http://www.darpa.mil/ATO/ in the solicitation area. Proposals not meeting the format described in the pamphlet may not be reviewed. All administrative correspondence and questions on this solicitation, including requests for information on how to submit a proposal to this BAA, should be directed to DARPA/ATO-Patten, BAA#99-24, fax: (703) 696-3999, electronic mail (email): BAA99-24@darpa.mil, or mail: DARPA/ATO, ATTN: BAA#99-24/Patten, 3701 North Fairfax Drive, Arlington, VA 22203-1714, e-mail or fax is preferred. DARPA intends to use electronic mail and fax for correspondence regarding BAA 99-24. Proposals may not be submitted by fax or e-mail; any so sent will be disregarded. DARPA encourages use of the WWW for retrieving the PIP and any other related information that may subsequently be provided. This notice, in conjunction with the BAA 99-24 PIP, constitutes the total BAA. No additional information is available, nor will a formal RFP or other solicitation regarding this announcement be issued. Requests for the same will be disregarded. Historically Black Colleges and Universities (HBCUs) and Minority Institutions (MIs) are encouraged to submit proposals and join others in submitting proposals. However, no portion of this BAA will be set aside for HBCU and MI specifically.

CONTRACT PRICING PROPOSAL COVER SHEET

1. SOLICITATION/CONTRACT/MODIFICATION NUMBER

OMB No.: 9000-0013
Expires:

NOTE: This form is used in contract actions if submission of cost or pricing data is required. (See *FAR* 15.804-6 (b)

2a. NAME OF OFFEROR	3a. NAME OF OFFEROR'S POINT OF CONTACT	3c. TELEPHONE	
2b. FIRST LINE ADDRESS	3b. TITLE OF OFFEROR'S POINT OF CONTACT	AREA CODE	NUMBER
2c. STREET ADDRESS			
2d. CITY / 2e. STATE / 2f. ZIP CODE			

4. TYPE OF CONTRACT *(Check)*

- ☐ a. NEW CONTRACT
- ☐ b. CHANGE ORDER
- ☐ c. PRICE REVISION/ REDETERMINATION
- ☐ d. LETTER CONTRACT
- ☐ e. UNPRICED ORDER
- ☐ f. OTHER *(Specify)*

5. TYPE OF CONTRACT *(Check)*

☐ FFP ☐ CPFF ☐ CPIF ☐ CPAF
☐ FPI ☐ OTHER *(Specify)*

6. PROPOSED COST *(A+B=C)*

A. COST	B. PROFIT/FEE	C. TOTAL
$	$ 0.	$

7. PERFORMANCE

PLACE		PERIOD	
a.		a.	
b.		b.	

8. List and reference the identification, quantity and total price proposed for each contract line item. A line item cost breakdown supporting this recap is required unless otherwise specified by the Contracting Officer. *(Continue on reverse, and then on plain paper, if necessary. Use same headings.)*

a. LINE ITEM NO.	b. IDENTIFICATION	c. QUANTITY	d. TOTAL PRICE	e. PROP. REF. PAGE
	(continued on reverse)			

9. PROVIDE THE FOLLOWING *(If available)*

NAME OF CONTRACT ADMINISTRATION OFFICE			NAME OF AUDIT OFFICE		
STREET ADDRESS			STREET ADDRESS		
CITY	STATE	ZIP CODE	CITY	STATE	ZIP CODE
TELEPHONE / AREA CODE	NUMBER		TELEPHONE / AREA CODE	NUMBER	

10. WILL YOU REQUIRE THE USE OF ANY GOVERNMENT PROPERTY IN THE PERFORMANCE OF THIS WORK? *(If "yes," identify)*
☐ YES ☐ NO

11a. DO YOU REQUIRE GOVERNMENT CONTRACT FINANCING TO PERFORM THIS PROPOSED CONTRACT? *(If "yes," complete Item 11b.)*
☐ YES ☐ NO

11b. TYPE OF FINANCING *(Check one)*
☐ ADVANCE PAYMENT ☐ PROGRESS PAYMENTS
☐ GUARANTEED LOANS

12. HAVE YOU BEEN AWARDED ANY CONTRACTS OR SUBCONTRACTS FOR THE SAME OR SIMILAR ITEMS WITHIN THE PAST 3 YEARS? *(If "yes," identify item(s), customer(s) and contract number(s) on reverse of form.)*
☐ YES ☐ NO

13. IS THIS PROPOSAL CONSISTENT WITH YOUR ESTABLISHED ESTIMATING AND ACCOUNTING PRACTICES AND PROCEDURES AND FAR PART 31, COST PRINCIPLES? *(If "no," explain on reverse of form.)*
☐ YES ☐ NO

14. COST ACCOUNTING STANDARDS BOARD (CASB) DATA *(Public Law 91-379 as amended and FAR PART 30)*

a. WILL THIS CONTRACT ACTION BE SUBJECT TO CASB REGULATIONS? *(if "no," explain in proposal.)*
☐ YES ☐ NO CAS Exempt, FAR 30.201-1

b. HAVE YOU SUBMITTED A CASB DISCLOSURE STATEMENT (CASB DS-1 or 2)? *(If "yes," specify in proposal the office to which submitted and if determined to be adequate.)*
☐ YES ☐ NO

c. HAVE YOU BEEN NOTIFIED THAT YOU ARE OR MAY BE IN NONCOMPLIANCE WITH YOUR DISCLOSURE STATEMENT OR COST ACCOUNT STANDARDS? *(If "yes," explain in proposal.)*
☐ YES ☐ NO

d. IS ANY ASPECT OF THIS PROPOSAL INCONSISTENT WITH YOUR DISCLOSED PRACTICES OR APPLICABLE COST ACCOUNTING STANDARDS? *(if "yes," explain in proposal.)*
☐ YES ☐ NO

This proposal is submitted in response to the solicitation, contract, modification, etc. in Item 1 and reflects our estimates and/or actual costs as of this date and conforms with the instructions in FAR 15.804-6(b)(1), and Table 15-2. By submitting this proposal, the offeror, if selected for negotiation, grants the contracting officer and authorized representative(s) the right to examine, at any time before award, those records, which include books, documents, accounting procedures and practices, and other data, regardless of type and regardless of whether such items are in written form, in the form of computer data, or any other form, or whether such supporting information is specifically referenced or included in the proposal as the basis for pricing, that will permit an adequate evaluation of the proposed price.

15. NAME OF OFFEROR *(Type)*	15. TITLE OF OFFEROR *(Type)*	16. NAME OF FIRM

17. SIGNATURE	18. DATE OF SUBMISSION

Enclosure (1)

Enclosure (1)

DARPA BAA 99-24
Totally Agile RF Sensor Systems (TASS)

Control Number *for DARPA use only*

Performers

Lead Organization _____

Volume 1 Technical Proposal ☐ *please indicate volume number with a check - ✓* **Volume 2 Cost Proposal** ☐

Subcontractor/Partners

_____ _____
_____ _____
_____ _____

Proposal Title

_____
_____

Keywords (5 words)

_____ _____ _____ _____ _____

Technical Abstract

_____
_____
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_____
_____

Technical POC	*Administrative POC*
Last Name: _____	**Last Name:** _____
Salutation: _____ **First Name:** _____	**Salutation:** _____ **First Name:** _____
Street Address:	**Street Address:**
_____	_____
_____	_____
_____	_____
City: _____	**City:** _____
State: _____ **Zip:** _____	**State:** _____ **Zip:** _____
Telephone: _____ **Fax:** _____	**Telephone:** _____ **Fax:** _____
E-mail: _____	**E-mail:** _____

Cost Summary

Total $ Cost	**Total Cost to Government**	**1st Year $ Cost to Government**	**Duration**

Enclosure (2)